

**IN THE CLAIMS:**

The text of all pending claims, (including withdrawn claims) is set forth below. Cancelled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (cancelled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 7 and 8 in accordance with the following:

1. (Cancelled)

2. (Cancelled)

3. (Previously Presented) The inverter unit according to claim 8, wherein the sensor detects the position or speed of the motor, the magnetic pole position of a rotor of the motor, the temperature of the motor, or the acceleration of the motor, and the sensor circuit processes signals from the sensor.

4-6. (Cancelled)

7. (Currently Amended) An inverter unit grounding method comprising:  
connecting an inverter unit comprising a sensor circuit to a winding of each phase of a motor and an AC power source;  
converting the AC power source into DC;  
switching a switching element on or off to supply current to the winding of each phase of the motor to thereby drivingly controlling the motor;  
detecting conditions of the motor with a sensor;  
connecting a shield braid of a shielded cable to the sensor circuit with an earth plate outside the inverter unit to reduce influence components that are generated as the switching element of the inverter unit is turned on or off; and  
connecting a 0V of a circuit system to the earth plate,  
wherein the 0V of the circuit system is connected to the earth plate by the shield braid of the shielded cable, causing impedance for frequency that constitutes the basis of noise upon the circuit system to decrease, thereby lessening influence of the noise upon the system.

8. (Currently Amended) An inverter unit, comprising:

a sensor circuit connected to a winding of each phase of a motor and an AC power source;

a converter for converting AC power source into DC;

a switching element turned on or off to supply current to the winding of each phase of the motor thereby drivingly controlling the motor;

a circuit system including at least one sensor for detecting a state of the motor; and

a shield braid of a shielded cable being connected to the sensor circuit with an earth plate outside the inverter unit,

wherein the shield braid is connected to a 0V of the circuit system and the earth plate outside the inverter unit to reduce influence components that are generated as the switching element of the inverter unit is turned on or off, and

wherein the 0V of the circuit system is connected to the earth plate by the shield braid of the shielded cable, causing impedance for frequency that constitutes the basis of noise upon the circuit system to decrease, thereby lessening influence of the noise upon the system.

9. (Previously Presented) An apparatus comprising:

means for connecting a 0V of a circuit system, including a sensor circuit in an inverter unit driving a motor;

a switching element turned on or off to supply current to the motor to thereby drivingly control the motor;

a circuit system including at least one sensor for detecting a state of the motor;

a shield braid of a shielded cable being connected to the sensor circuit with an earth plate outside the inverter unit; and

means for connecting the shield braid of the shielded cable to a 0V of the circuit system and the earth plate outside the inverter unit to reduce an influence of components that are generated as the switching element of the inverter unit is turned on or off, and

wherein the 0V of the circuit system is connected to the earth plate by the shield braid of the shielded cable, causing impedance for frequency that constitutes the basis of noise upon the circuit system to decrease, thereby lessening influence of the noise upon the system.